



IFW

Docket No.: 5173-0103PUS1
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Hironobu TERAOKA et al.

Application No.: 10/588,802

Confirmation No.: 9726

Filed: August 9, 2006

Art Unit: 3745

For: IMPELLER FOR BLOWER AND AIR
CONDITIONER HAVING THE SAME

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

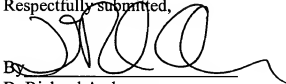
Subsequent to the filing of the above-identified application on August 9, 2006, attached hereto are Form PCT/IB/373, and Form PCT/ISA/237 that should be made of record in the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any

additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: June 29, 2007

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D. Anderson', written over a horizontal line.

D. Richard Anderson

Registration No.: 40,439

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Attachment(s)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P3S2005209	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2005/018129	International filing date (day/month/year) 30 September 2005 (30.09.2005)	Priority date (day/month/year) 30 September 2004 (30.09.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant DAIKIN INDUSTRIES, LTD.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).		
2.	This REPORT consists of a total of 4 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	This report contains indications relating to the following items:		
	<input checked="" type="checkbox"/> Box No. I	Basis of the report	
	<input type="checkbox"/> Box No. II	Priority	
	<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	<input type="checkbox"/> Box No. IV	Lack of unity of invention	
	<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	<input type="checkbox"/> Box No. VI	Certain documents cited	
	<input type="checkbox"/> Box No. VII	Certain defects in the international application	
	<input type="checkbox"/> Box No. VIII	Certain observations on the international application	
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Date of issuance of this report 03 April 2007 (03.04.2007)
	Authorized officer Yoshiko Kuwahara e-mail: pt07.pct@wipo.int

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference P3S2005209		Date of mailing (day/month/year)	
International application No. PCT/JP2005/018129		FOR FURTHER ACTION See paragraph 2 below	
International filing date (day/month/year) 30.09.2005	Priority date (day/month/year) 30.09.2004		
International Patent Classification (IPC) or both national classification and IPC			
Applicant DAIKIN INDUSTRIES, LTD.			

1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/018129

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:
☒ the international application in the language in which it was filed
☐ the translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☒ table(s) related to the sequence listing
 - b. format of material
☐ on paper
☐ in electronic form
 - c. time of filing/furnishing
☐ contained in the international application as filed
☐ filed together with the international application in electronic form
☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/018129

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
1. Statement		
Novelty (N)	Claims 1-22	YES
	Claims	NO
Inventive step (IS)	Claims 8, 9, 16-19, 21, 22	YES
	Claims 1-7, 10-15, 20	NO
Industrial applicability (IA)	Claims 1-22	YES
	Claims	NO
2. Citations and explanations:		
<p>Document 1: JP 3-249400 A (Matsushita Electric Industrial Co., Ltd.), 07 November 1991 Document 2: JP 10-252689 A (Mitsubishi Electric Corp.), 22 September 1998 Document 3: JP 9-327156 A (Denso Corp.), 16 December 1997</p> <p>The inventions of claims 1, 2, 5, 10, 12, and 20 do not appear to possess inventive step over documents 1 and 3. Document 1 describes "providing notches intermittently at intervals in a lengthwise direction of a blade." See figure 4 of document 3 in regard to claim 10 in particular. See figure 6 of document 3 in regard to the invention of claim 11.</p> <p>The inventions of claims 3, 4, 6, 7, and 11 do not appear to possess inventive step over documents 1 and 2. The inventions of documents 1 and 2 both relate to technologies for preventing noise and combining the inventions described in these documents to achieve a further effect would be easy for a person skilled in the art.</p> <p>The inventions of claims 13-15 do not appear to possess inventive step over documents 1-3. The numerical range prescribed by the claims could be empirically determined by a person skilled in the art.</p>		